The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Withdrawn) A method of manufacturing a semiconductor device comprising the steps of:

adding a metallic element to a first semiconductor film having an amorphous structure:

crystallizing the first semiconductor film to form a first semiconductor film having a crystalline structure;

forming a barrier layer on a surface of the first semiconductor film having a crystalline structure;

forming a second semiconductor film on the barrier layer;

forming a third semiconductor film comprising a noble gas element on the second semiconductor film;

gettering the metallic element into the third semiconductor film to remove or reduce the amount of the metallic element within the first semiconductor film having a crystalline structure; and

removing the second semiconductor film and the third semiconductor film.

- 2. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises steps of forming a semiconductor film and adding a noble gas element to the semiconductor film.
- 3. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises a step of

forming a semiconductor film comprising a noble gas element by using plasma CVD or reduced pressure thermal CVD.

- 4. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises a step of forming a third semiconductor film comprising a noble gas element by using sputtering.
- 5. (Withdrawn) A method of manufacturing a semiconductor device according to claim 3, comprising the step of forming the third semiconductor film comprising a noble gas element and further adding a noble gas element to the third semiconductor film.
- 6. (Withdrawn) A method of manufacturing a semiconductor device according to claim 4, comprising the step of forming the third semiconductor film comprising a noble gas element and further adding a noble gas element to the third semiconductor film.
- 7. (Withdrawn) A method of manufacturing a semiconductor device according to claim 2, comprising the step of adding one element or a plurality of elements chosen from the group consisting of O, O₂, P, H, and H₂ in addition to the noble gas element.
- 8. (Withdrawn) A method of manufacturing a semiconductor device according to claim 5, comprising the step of adding one element or a plurality of elements chosen from the group consisting of O, O₂, P, H, and H₂ in addition to the noble gas element.
- 9. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the third semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.

10. (Previously Presented) A method of manufacturing a semiconductor device comprising the steps of:

adding a metallic element to a first semiconductor film having an amorphous structure:

crystallizing the first semiconductor film to form a first semiconductor film having a crystalline structure;

forming a barrier layer on a surface of the first semiconductor film having a crystalline structure;

forming a second semiconductor film on the barrier layer;

adding a noble gas element to a region of the second semiconductor film;

gettering the metallic element into the region of the second semiconductor film to remove or reduce the amount of the metallic element within the first semiconductor film having a crystalline structure; and

removing the second semiconductor film.

- 11. (Currently Amended) A method of manufacturing a semiconductor device according to claim 10, further comprising [[the]] a step of adding one element or a plurality of elements chosen from the group consisting of O, O₂, P, H, and H₂ in addition to the noble gas element.
- 12. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the second semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.
- 13. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the second semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.

- 14. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the metallic element is one element or a plurality of elements chosen from the group consisting of Fe, Ni, Co, Ru, Rh, Pd, Os, Ir, Pt, Cu, and Au.
- 15. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the metallic element is one element or a plurality of elements chosen from the group consisting of Fe, Ni, Co, Ru, Rh, Pd, Os, Ir, Pt, Cu, and Au.
- 16. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a heat treatment process.
- 17. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a heat treatment process.
- 18. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a process of irradiating strong light to the semiconductor film having an amorphous structure.
- 19. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a process of irradiating strong light to the semiconductor film having an amorphous structure.
- 20. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a heat treatment process and a process of irradiating strong light to the semiconductor film having an amorphous structure.

21. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a heat treatment process and a process of irradiating strong light to the semiconductor film having an

amorphous structure.

- 22. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by using a solution containing ozone.
- 23. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by using a solution containing ozone.
- 24. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by irradiating ultraviolet light.
- 25. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by irradiating ultraviolet light.
- 26. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a heat treatment process.

- 27. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a heat treatment process.
- 28. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a process of irradiating strong light to the semiconductor film.
- 29. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a process of irradiating strong light to the semiconductor film.
- 30. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a heat treatment process and a process of irradiating strong light to the semiconductor film.
- 31. (Original) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a heat treatment process and a process of irradiating strong light to the semiconductor film.
- 32. (Withdrawn) A method of manufacturing a semiconductor device according to claim 18, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 33. (Original) A method of manufacturing a semiconductor device according to claim 19, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.

- 34. (Withdrawn) A method of manufacturing a semiconductor device according to claim 20, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 35. (Original) A method of manufacturing a semiconductor device according to claim 21, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 36. (Withdrawn) A method of manufacturing a semiconductor device according to claim 28, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 37. (Original) A method of manufacturing a semiconductor device according to claim 29, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 38. (Withdrawn) A method of manufacturing a semiconductor device according to claim 30, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 39. (Original) A method of manufacturing a semiconductor device according to claim 31, wherein the strong light is light emitted from a halogen lamp, a metal halide

lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.

- 40. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the noble gas element is one element or a plurality of elements chosen from the group consisting of He, Ne, Ar, Kr, and Xe.
- 41. (Previously Presented) A method of manufacturing a semiconductor device according to claim 10, wherein the noble gas element is one element or a plurality of elements chosen from the group consisting of He, Ne, Ar, Kr, and Xe.
- (Withdrawn-Currently Amended) A method of manufacturing a 42. semiconductor device according to claim 1, wherein the third semiconductor film further comprises one element or a plurality of elements selected from the group consisting of O, O₂, P, H, and H₂.
- 43. (Currently Amended) A method of manufacturing a semiconductor device according to claim 10, wherein the second semiconductor film further comprises one element or a plurality of elements selected from the group consisting of O, O2, P, H, and H_2 .
- 44. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the third semiconductor film comprises a noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 45. (Previously Presented) A method of manufacturing a semiconductor device according to claim 10, wherein the second semiconductor film comprises a noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.

46. (Withdrawn) A method of manufacturing a semiconductor device comprising: forming a first semiconductor film having an amorphous structure over a substrate:

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a barrier layer over the first semiconductor film having a crystalline structure:

forming a second semiconductor film over the barrier layer;

forming a third semiconductor film over the second semiconductor film, the third semiconductor film comprising a noble gas element;

gettering the material for promoting crystallization into the third semiconductor film.

47. (Previously Presented) A method of manufacturing a semiconductor device comprising:

forming a first semiconductor film having an amorphous structure over a substrate;

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a barrier layer over the first semiconductor film having a crystalline structure;

forming a second semiconductor film over the barrier layer;

adding a noble gas element to a region of the second semiconductor film;

gettering the material for promoting crystallization into the region of the second semiconductor film.

48. (Withdrawn) A method of manufacturing a semiconductor device comprising: forming a first semiconductor film having an amorphous structure over a substrate:

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity; forming a second semiconductor film over the first semiconductor film;

forming a third semiconductor film over the second semiconductor film, the third semiconductor film comprising a noble gas element;

gettering the material for promoting crystallization into the third semiconductor film.

49. (Previously Presented) A method of manufacturing a semiconductor device comprising:

forming a first semiconductor film having an amorphous structure over a substrate:

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a second semiconductor film over the first semiconductor film, the second semiconductor film comprising a noble gas element;

gettering the material for promoting crystallization into the second semiconductor film.

50. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.

- 51. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 52. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 53. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 54. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 55. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 56. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 57. (Previously Presented) A method of manufacturing a semiconductor device according to claim 49, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.

58. (Withdrawn) A method of manufacturing a semiconductor device according

to claim 46, wherein the third semiconductor film comprises the noble gas element at a

concentration of 1 × 10^{19} to 1 × 10^{22} /cm³.

- 59. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the second semiconductor film comprises the noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 60. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the third semiconductor film comprises the noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 61. (Previously Presented) A method of manufacturing a semiconductor device according to claim 49, wherein the second semiconductor film comprises the noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 62. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 63. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.

- 64. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 65. (Previously Presented) A method of manufacturing a semiconductor device according to claim 49, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 66. (Withdrawn) A method of manufacturing a semiconductor device comprising: providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing a metallic element;

forming a barrier layer over the crystalline semiconductor film;

forming a second semiconductor film over the barrier layer;

forming a third semiconductor film comprising a noble gas element over the second semiconductor film;

gettering the metallic element into the third semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film; and removing the second semiconductor film and the third semiconductor film.

67. (Currently Amended) A method of manufacturing a semiconductor device comprising:

providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing a metallic element;

forming a barrier layer over the crystalline semiconductor film;

forming a second semiconductor film over the barrier layer;

adding a noble gas element to a region of the second semiconductor film;

gettering the metallic element into the region of the second semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film; and

removing the second semiconductor film.

- 68. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 69. (Previously Presented) A method of manufacturing a semiconductor device according to claim 67, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 70. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 71. (Previously Presented) A method of manufacturing a semiconductor device according to claim 67, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 72. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.

- 73. (Previously Presented) A method of manufacturing a semiconductor device according to claim 67, wherein the noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 74. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the third semiconductor film comprises the noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 75. (Previously Presented) A method of manufacturing a semiconductor device according to claim 67, wherein the second semiconductor film comprises the noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 76. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 77. (Previously Presented) A method of manufacturing a semiconductor device according to claim 67, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 78. (Previously Presented) A method of manufacturing a semiconductor device comprising the steps of:

providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing a metallic element;

adding a noble gas element to a region of the semiconductor film;

forming a semiconductor film over the crystalline semiconductor film;

gettering the metallic element into the semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film.

- 79. (Previously Presented) A method of manufacturing a semiconductor device according to claim 78, wherein the noble gas element is added into an upper surface of the semiconductor film.
- 80. (Previously Presented) A method of manufacturing a semiconductor device according to claim 78, wherein the semiconductor film comprises a first region and a second region comprising a noble gas element on the first region.
- 81. (New) A method of manufacturing a semiconductor device according to claim 10, wherein the metallic element moves to the region of the second semiconductor film in a direction perpendicular to the first semiconductor film.
- 82. (New) A method of manufacturing a semiconductor device according to claim 47, wherein the metallic element moves to the region of the second semiconductor film in a direction perpendicular to the substrate.
- 83. (New) A method of manufacturing a semiconductor device according to claim 49, wherein the metallic element moves to the second semiconductor film in a direction perpendicular to the substrate.
- 84. (New) A method of manufacturing a semiconductor device according to claim 67, wherein the metallic element moves to the region of the semiconductor film in a direction perpendicular to the substrate.

85. (New) A method of manufacturing a semiconductor device according to claim 78, wherein the metallic element moves to the region of the semiconductor film in a direction perpendicular to the substrate.